

US LHC Accelerator Research Program
Task Sheet

Task Name: Long Quadrupole LQ (WBS 2.2.1.3)

Date: June 12, 2006
PRELIMINARY

Task Leader:

Collaborating Institutions: FNAL, LBNL, BNL

Budget:

	FY07 (k\$)			FY08 (k\$)		
	Labor	M&S	Total	Labor	M&S	Total
FNAL			350			
LBNL			50			
BNL			50			
Total			450			

Statement of Work:

Main Objectives and Features:

- Develop and test a series of 4-m long, 2-layer, 90-mm Nb₃Sn quadrupole models based on the TQ short model design. Compare the magnet performance with the design parameters.

Work Plan, Distribution, and Schedule:

FY07

- | | | |
|---------------------------------------|------------|------------|
| - Coil engineering design | FNAL+LBNL; | 12/25/2006 |
| - Design and procure coil tooling | FNAL+BNL; | 05/01/2007 |
| - Procure practice coil cable & parts | FNAL+LBNL; | 06/01/2007 |

FY08

- | | | |
|--|----------------|------------|
| - Fabricate practice coils | FNAL+LBNL+BNL; | 10/19/2007 |
| - Support structure engineering design | FNAL+LBNL; | 10/30/2007 |
| - Support structure procurement | FNAL+LBNL; | 04/15/2008 |
| - LQ01 coil fabrication | FNAL+LBNL+BNL | 04/15/2008 |
| - LQ01 assembly & test | FNAL+LBNL; | 08/18/2006 |